

APPENDIX B

**Cowardin Classification & Habitat Types
Of Riparian Areas & Wetlands
Found On BLM-Administered Lands
Within the
Upper Big Hole River Watershed**

Stream or Wetland / Reach #	Landscape Position	Cowardin Wetland Classification				Habitat Type
		System (Subsystem)	Class	Subclass	Water Regime	
Big Hole River / 1916	Lotic River	Riverine (Upper Perennial)	Uncon-solidated Bottom	Cobble - Gravel	Permanently flooded	- open flowing water – (Geyer willow / Beaked sedge)
Doolittle Wetlands / 1917	Lotic River	Palustrine	Scrub-shrub	Broad-leaved deciduous	Seasonally flooded	Geyer willow / Beaked sedge
Plimpton Creek Tributary / 1922	Lotic Stream	Palustrine	Forested	Needle-leaved evergreen	Seasonally flooded	Englemann spruce / Red-osier dogwood
Cathouse Fen / 1999	Lentic	Palustrine	Scrub-shrub	Broad-leaved deciduous	Semi-permanently flooded	Geyer willow / Beaked sedge
Bender Creek Tributary / 1920	Lentic	Palustrine	Emergent	Persistent	Seasonally flooded	Beaked sedge herbaceous vegetation
Bender Creek Tributary / 1921	Lotic Stream	Palustrine	Scrub-shrub	Broad-leaved deciduous	Seasonally flooded	Geyer willow / Beaked sedge
North Fork Big Hole River / 1923	Lotic River	Riverine (Upper Perennial)	Uncon-solidated Bottom	Cobble - Gravel	Permanently flooded	- open flowing water – (Drummond's willow / Beaked sedge)
North Fork Wet Meadow / 1915	Lentic	Palustrine	Scrub-shrub	Broad-leaved deciduous	Seasonally flooded	Geyer willow / Beaked sedge
North Fork Wetland / 1924	Lentic	Palustrine	Scrub-shrub	Broad-leaved deciduous	Seasonally flooded	Geyer willow / Beaked sedge
North Fork Big Hole River / 1909	Lotic Stream	Riverine (Upper Perennial)	Uncon-solidated Bottom	Cobble - Gravel	Permanently flooded	- open flowing water – (Geyer willow / Beaked sedge)
Noyes Creek / 1919	Lotic Stream	Palustrine	Forested	Needle-leaved evergreen	Seasonally flooded	Englemann spruce / Red-osier dogwood
Steel Creek Wet Meadow / 1918	Lentic	Palustrine	Emergent	Persistent	Saturated	Beaked sedge herbaceous vegetation
Steel Creek Tributary / 1976	Lotic Stream	Palustrine	Scrub-shrub	Broad-leaved deciduous	Seasonally flooded	Quaking aspen / Red-osier dogwood

Stream or Wetland / Reach #	Landscape Position	Cowardin Wetland Classification				Habitat Type
		System (Subsystem)	Class	Subclass	Water Regime	
North Swamp Wetland / 1925	Lentic	Palustrine	Emergent	Persistent	Temporarily flooded	Shrubby cinquefoil / Tufted hairgrass
South Ruby / 1910	Lotic Stream	Palustrine	Emergent	Persistent	Seasonally flooded	Beaked sedge herbaceous vegetation
Ruby Wetland / 1990	Lentic	Palustrine	Emergent	Persistent	Semi-permanently flooded	Beaked sedge herbaceous vegetation
Yank Swamp Meadow / 1913	Lentic	Palustrine	Emergent	Persistent	Semi-permanently flooded	Beaked sedge herbaceous vegetation
Yank Swamp Tributary / 1991	Lotic Stream	Palustrine	Forested	Needle-leaved evergreen	Seasonally flooded	Lodgepole pine / Bluejoint reedgrass
Yank Swamp / 1914	Lentic	Palustrine	Scrub-shrub	Broad-leaved deciduous	Semi-permanently flooded	Geyer willow / Beaked sedge
Swamp Creek / 1992	Lotic Stream	Palustrine	Scrub-shrub	Broad-leaved deciduous	Seasonally flooded	Geyer willow / Beaked sedge
Yank Swamp Tributary / 1911	Lotic Stream	Palustrine	Emergent	Persistent	Seasonally flooded	Beaked sedge herbaceous vegetation
Yank Swamp Wet Meadow / 1912	Lentic	Palustrine	Scrub-shrub	Broad-leaved deciduous	Semi-permanently flooded	Geyer willow / Beaked sedge
Rock Creek / 1907	Lotic Stream	Palustrine	Forested	Needle-leaved evergreen	Seasonally flooded	Englemann spruce / Red-osier dogwood
Rock Creek / 1908	Lotic Stream	Palustrine	Forested	Needle-leaved evergreen	Seasonally flooded	Englemann spruce / Red-osier dogwood
Dry Creek / 1906	Lotic Stream	Palustrine	Forested	Needle-leaved evergreen	Seasonally flooded	Lodgepole pine / Western meadowrue
Big Lake Creek /1905	Lotic Stream	Palustrine	Forested	Needle-leaved evergreen	Seasonally flooded	Englemann spruce / Red-osier dogwood

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Dry Fork / 1904	Lotic Stream	Palustrine	Forested	Needle-leaved evergreen	Seasonally flooded	Englemann spruce / Red-osier dogwood
Lowder Pothole # 1 / 1926	Terrene	Palustrine	Emergent	Persistent	Semi-permanently flooded	Beaked sedge herbaceous vegetation
Lowder Pothole # 3 / 1928	Terrene	Palustrine	Emergent	Persistent	Intermittently Exposed	Beaked sedge / Inflated sedge
Lowder Pothole # 4 / 1929	Terrene	Palustrine	Emergent	Persistent	Intermittently Exposed	Beaked sedge / Inflated sedge
Lowder Pothole # 5 / 1930	Terrene	Palustrine	Emergent	Persistent	Intermittently Exposed	Beaked sedge / Inflated sedge
Lowder Pothole # 6 / 1931	Terrene	Palustrine	Emergent	Persistent	Intermittently Exposed	Beaked sedge / Inflated sedge
Lowder Pothole # 7 / 1932	Terrene	Palustrine	Emergent	Persistent	Semi-permanently flooded	Tufted hairgrass herbaceous vegetation
Lowder Pothole # 8 / 1933	Terrene	Palustrine	Emergent	Persistent	Intermittently Exposed	Beaked sedge / Inflated sedge
Lowder Pothole # 9 / 1934	Terrene	Palustrine	Emergent	Persistent	Intermittently Exposed	Beaked sedge / Inflated sedge
Lowder Pothole #10 / 1935	Terrene	Palustrine	Emergent	Persistent	Intermittently Exposed	Beaked sedge / Inflated sedge
Lowder Pothole # 11 / 1936	Terrene	Palustrine	Emergent	Persistent	Intermittently Exposed	Beaked sedge / Inflated sedge
Lowder Pothole # 12 / 1937	Terrene	Palustrine	Emergent	Persistent	Intermittently Exposed	Beaked sedge / Inflated sedge
Lowder Pothole # 13 / 1938	Terrene	Palustrine	Emergent	Persistent	Intermittently Exposed	Beaked sedge / Inflated sedge
Lowder Pothole # 14 / 1939	Terrene	Palustrine	Emergent	Persistent	Intermittently Exposed	Beaked sedge / Inflated sedge
Lowder Pothole # 15 / 1940	Terrene	Palustrine	Emergent	Persistent	Permanently flooded	Beaked sedge / Rocky Mountain pond-lily
Lowder Pothole # 16 / 1941	Terrene	Palustrine	Aquatic Bed	Rooted Vascular	Permanently flooded	Rocky Mountain pond-lily / Pondweed

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Lowder Pothole # 17 / 1942	Terrene	Palustrine	Emergent	Persistent	Intermittently Exposed	Beaked sedge / Inflated sedge
Lowder Pothole # 18 / 1943	Terrene	Palustrine	Emergent	Persistent	Permanently flooded	Beaked sedge / Rocky Mountain pond-lily
Lowder Pothole # 19 / 1944	Terrene	Palustrine	Emergent	Persistent	Intermittently Exposed	Beaked sedge / Inflated sedge
Lowder Pothole # 20 / 1945	Terrene	Palustrine	Aquatic Bed	Rooted Vascular	Permanently flooded	Bur-reed / Beaked sedge
Lowder Pothole # 21 / 1946	Terrene	Palustrine	Emergent	Persistent	Semi-permanently flooded	Tufted hairgrass herbaceous vegetation
Lowder Pothole # 22 / 1947	Terrene	Palustrine	Emergent	Persistent	Seasonally flooded	Tufted hairgrass herbaceous vegetation
Lowder Pothole # 23 / 1948	Terrene	Palustrine	Aquatic Bed	Rooted Vascular	Permanently flooded	Bur-reed / Beaked sedge
Lowder Pothole # 24 / 1949	Terrene	Palustrine	Aquatic Bed	Rooted Vascular	Permanently flooded	Bur-reed / Beaked sedge
Lowder Pothole # 25 / 1950	Terrene	Palustrine	Aquatic Bed	Rooted Vascular	Permanently flooded	Bur-reed / Beaked sedge
Lowder Pothole # 26 / 1951	Terrene	Palustrine	Aquatic Bed	Rooted Vascular	Permanently flooded	Bur-reed / Beaked sedge
Lowder Pothole # 27 / 1952	Terrene	Palustrine	Unconsolidated Bottom	Mud	Permanently flooded	Quaking aspen / Bluejoint reedgrass
Lowder Pothole # 28 / 1953	Terrene	Palustrine	Aquatic Bed	Rooted Vascular	Permanently flooded	Pondweed / Beaked sedge
Lowder Pothole # 29 / 1954	Terrene	Palustrine	Aquatic Bed	Rooted Vascular	Permanently flooded	Pondweed / Beaked sedge
Lowder Pothole # 30 / 1955	Terrene	Palustrine	Aquatic Bed	Rooted Vascular	Permanently flooded	Pondweed / Beaked sedge
Lowder Pothole # 31 / 1956	Terrene	Palustrine	Unconsolidated Bottom	Mud	Intermittently Exposed	Lodgepole pine / Grouse whortleberry
Lowder Pothole # 32 / 1957	Terrene	Palustrine	Aquatic Bed	Rooted Vascular	Permanently flooded	Bur-reed / Beaked sedge

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Lowder Pothole # 33 / 1958	Terrene	Palustrine	Aquatic Bed	Rooted Vascular	Permanently flooded	Pondweed / Beaked sedge
Lowder Pothole # 34 / 1959	Terrene	Palustrine	Emergent	Persistent	Intermittently Exposed	Beaked sedge / Inflated sedge
Lowder Pothole # 35 / 1960	Terrene	Palustrine	Emergent	Persistent	Intermittently Exposed	Beaked sedge / Inflated sedge
Lowder Pothole # 36 / 1989	Terrene	Palustrine	Emergent	Persistent	Semi-permanently flooded	Beaked sedge / Inflated sedge
Lowder Pothole # 37 / 1978	Terrene	Palustrine	Aquatic Bed	Rooted Vascular	Permanently flooded	Bur-reed / Beaked sedge
Lowder Pothole # 38 / 1979	Terrene	Palustrine	Unconsolidated Bottom	Mud	Intermittently Exposed	Lodgepole pine / Grouse whortleberry
Lowder Pothole # 39 / 1980	Terrene	Palustrine	Aquatic Bed	Rooted Vascular	Permanently flooded	Bur-reed / Beaked sedge
Lowder Pothole # 40 / 1981	Terrene	Palustrine	Aquatic Bed	Rooted Vascular	Permanently flooded	Bur-reed / Beaked sedge
Lowder Pothole # 41 / 1982	Terrene	Palustrine	Emergent	Persistent	Intermittently Exposed	Beaked sedge / Inflated sedge
Lowder Pothole # 42 / 1995	Terrene	Palustrine	Emergent	Persistent	Intermittently Exposed	Beaked sedge / Inflated sedge
Lowder Pothole # 43 / 1983	Terrene	Palustrine	Aquatic Bed	Rooted Vascular	Permanently flooded	Pondweed / Beaked sedge
Lowder Pothole # 44 / 1984	Terrene	Palustrine	Emergent	Persistent	Intermittently Exposed	Beaked sedge / Inflated sedge
Lowder Pothole # 45 / 1985	Terrene	Palustrine	Emergent	Persistent	Intermittently Exposed	Beaked sedge / Inflated sedge
Lowder Pothole # 46 / 1986	Terrene	Palustrine	Unconsolidated Bottom	Mud	Intermittently Exposed	Lodgepole pine / Grouse whortleberry
Lowder Pothole # 47 / 1993	Terrene	Palustrine	Unconsolidated Bottom	Mud	Intermittently Exposed	Lodgepole pine / Grouse whortleberry
Lowder Pothole # 48 / 1987	Terrene	Palustrine	Aquatic Bed	Rooted Vascular	Permanently flooded	Pondweed / Beaked sedge

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Lowder Pothole # 49 / 1988	Terrene	Palustrine	Emergent	Persistent	Intermittently Exposed	Beaked sedge / Inflated sedge
Lowder Pothole # 50 / 1996	Terrene	Palustrine	Uncon-solidated Bottom	Mud	Intermittently Exposed	Lodgepole pine / Grouse whortleberry
Camas Meadow / 1994	Lentic	Palustrine	Emergent	Persistent	Seasonally flooded	Tufted hairgrass herbaceous vegetation
Great Gray Wetland / 1963	Lentic	Palustrine	Emergent	Persistent	Semi-permanently flooded	Beaked sedge herbaceous vegetation
Headgate Wetland / 1964	Lentic	Palustrine	Emergent	Persistent	Semi-permanently flooded	Beaked sedge herbaceous vegetation
Big Swamp Creek / 1903	Lotic Stream	Palustrine	Scrub-shrub	Broad-leaved deciduous	Seasonally flooded	Geyer willow / Beaked sedge
Big Swamp Creek Tributary / 1998	Lotic Stream	Palustrine	Scrub-shrub	Broad-leaved deciduous	Seasonally flooded	Geyer willow / Beaked sedge
Big Swamp Wetland / 1967	Lentic	Palustrine	Scrub-shrub	Broad-leaved deciduous	Seasonally flooded / Saturated	Geyer willow / Beaked sedge
North Branch Big Swamp Creek / 1977	Lotic Stream	Palustrine	Scrub-shrub	Broad-leaved deciduous	Seasonally flooded	Geyer willow / Beaked sedge
South Branch Big Swamp Creek / 1902	Lotic Stream	Palustrine	Scrub-shrub	Broad-leaved deciduous	Seasonally flooded	Geyer willow / Beaked sedge
South Branch Big Swamp Creek / 1966	Lotic Stream	Palustrine	Scrub-shrub	Broad-leaved deciduous	Seasonally flooded	Geyer willow / Beaked sedge
South Branch Big Swamp Creek / 1965	Lotic Stream	Palustrine	Scrub-shrub	Broad-leaved deciduous	Seasonally flooded	Geyer willow / Beaked sedge

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Big Swamp Creek Tributary / 1997	Lotic Stream	Palustrine	Scrub-shrub	Broad-leaved deciduous	Seasonally flooded	Geyer willow / Beaked sedge
Swamp Creek Wetland / 1968	Lentic	Palustrine	Scrub-shrub	Broad-leaved deciduous	Semi-permanently flooded	Geyer willow / Beaked sedge
Warm Springs Creek / 1900	Lotic Stream	Riverine (Upper Perennial)	Unconsolidated Bottom	Cobble - Gravel	Permanently flooded	- open flowing water – (Geyer willow / Beaked sedge)
Warm Springs Wetland / 1970	Lotic Stream	Palustrine	Scrub-shrub	Broad-leaved deciduous	Seasonally flooded	Geyer willow / Beaked sedge
Woody Creek / 1901	Lotic Stream	Palustrine	Scrub-shrub	Broad-leaved deciduous	Seasonally flooded	Quaking aspen / Red-osier dogwood
Fox Gulch / 1969	Lotic Stream	Palustrine	Scrub-shrub	Broad-leaved deciduous	Seasonally flooded	Englemann spruce / Red-osier dogwood